

BOX PATENT

Attorney Docket No.: 23634X

THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Group Art Unit: 1764

Haruhiko NAGURA Hiroshi TANABE

Serial No. 09/822,845 Filed: April 2, 2001

Title: CATALYST CONVERTER

(Continuation-in-part of U.S. Patent Application No. 09/100,979, filed June 22, 1998)

TRANSMITTAL LETTER

Commissioner of Patents Washington, D.C. 20231

Sir:

Submitted herewith for filing in the U.S. Patent and Trademark Office is the following:

- Transmittal Letter; (1)
- Information Disclosure Statement;
- (3) Information Disclosure Statement Transmittal Letter;
- (4) PTO Form 1449 with // references;
- (5) Search Report dated 11 October 2000.

The Commissioner is hereby authorized to charge any deficiency or credit any excess to Deposit Account No. 14-0112.

RECEIVED
TC 1700

Respectfully submitted,

NATH & ASSOCIATES PLLC

By:

M. Nath Registration No. 26,965

Marvin C. Berkowitz

Registration No. 47,421

Customer No. 20529

Date: December NATH & ASSOCIATES PLLC 1030 15th Street NW - 6th Floor Washington, D.C. 20005 GMN/MCB/dd:IDS

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Group Art Unit: 1764

Haruhiko NAGURA Hiroshi TANABE

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(Continuation-in-part of U.S. Patent Application No. 09/100,979 filed June 22, 1998)

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL LETTER

Commissioner of Patents Washington, D.C. 20231 SIR:

An Information Disclosure Statement is submitted herewith pursuant to 37 C.F.R. §1.97-1.98. Please note the following particulars:

[NOTE: One only of items a, b, c, and d must be checked.]

- a. The enclosed statement is being filed within three months of the filing date of a national application, or within three months of the date of entry into the national stage as set forth in 37 C.F.R. §1.491 in an international application, or before the mailing date of a first Office Action on the merits, whichever event occurs last.
- The enclosed statement is being filed after a first action] b. on the merits but before the mailing date of a final action under 37 C.F.R. §1.113, or a notice of allowance under 37 C.F.R. §1.311.

The enclosed statement is accompanied by [check one]:

- i. a certification in part (e) below as specified in 37 C.F.R. §1.97(e), or
- ii. a check in the amount of \$180.00 required by [] 37 C.F.R. §1.17(p).
- The enclosed statement is being filed after the mailing [date of a final action under 37 C.F.R. §1.113, or a notice of allowance under 37 C.F.R. §1.311, but before payment of the issue fee. It is requested that the information being PETITION:

submitted be considered. [NOTE: If box (c) is checked, the following boxe must be checked.]

] CERTIFICATION is attended to in box (e) below.

- [] d. The enclosed statement is being filed pursuant to 37 C.F.R. §1.97(i), for placement in the file.
- [] e. Certification [Check one] [Certification is required only if box (b)(i) or box (c) is checked.]
 - [] I hereby certify that each item of information contained in the enclosed Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement,

or

I hereby certify that no item of information in the enclosed Information Disclosure Statement herewith was cited in a communication from a foreign patent office in a counterpart foreign application, or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

or

- [] Appropriate certification is attached.
- [x] f. If no check is enclosed and a fee is due in connection with this communication or if the check enclosed is insufficient, the Commissioner is authorized to charge any fee or additional fee due in connection with this communication to Deposit Account No. 14-0112.

Respectfully submitted, NATH & ASSOCIATES PLLC

Date: December / 8, 2001

Ву

Gary M. Nath

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Group Art Unit: 1764

Haruhiko NAGURA Hiroshi TANABE

09/822,845 Filed: April 2, 2001 Serial No.

CATALYST CONVERTER Title:

PECENED TO 1200, ED (Continuation-in-part of U.S. Patent Application No. 09/100,979, filed June 22, 1998)

INFORMATION DISCLOSURE STATEMENT

Commissioner of Patents Washington, D.C. 20231

Sir:

Pursuant to Applicant's duty of disclosure under 37 C.F.R. §§1.56 and 1.97-1.99, the documents listed on the attached Form PTO-1449 are being brought to the attention of the Examiner in No fee is required charge of the above-identified application. for this submission because it is submitted before the mailing date of a first Office Action on the merits.

Copies of the documents are attached herewith with a completed Form PTO-1449. The Examiner is respectfully requested to cite the documents listed on the attached Form PTO-1449 in the next Office In so doing, the Examiner is respectfully requested to Action. initial in the space adjacent to the listing of each document on the Form PTO-1449, and return a copy of the initialed Form PTO-1449

with the next communication to Applicants, to confirm that these documents have been considered by the Examiner and made of record in this application.

If the Examiner has any questions or wishes to discuss this application, kindly telephone the undersigned at the below-listed number.

The Commissioner is hereby authorized to charge any deficiency or credit any excess to Deposit Account No. 14-0112.

Respectfully submitted,

NATH & ASSOCIATES PLLC

Date: December 18, 2001

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Customer No. 20529

FORM PTO-1449 INFORMATION DISCLOSURE CITATION				Atty Docket 23634	Seri	Serial No. 09/822,845		
	0/2		CITATION	Applicant NAGURA e	t al.			
PATERIS	PE , 300	A A		Filing Date April 2,		Group Art Unit 001 1764		
- 	£		U.S. PATEN	T DOCUMENTS		<u> </u>		
kaminer nitial		Document Number	Issue Date	Name	Class	Sub- Class	Filing Date	
	AA	4,793,136	12/27/88	William A. WHITTENBREGER	60	299	08/26/87 	
	AB 5,323,608 06/28/94 Hideaki		Hideaki HONMA	60	299	02/25/93		
	AC	5,110,561	05/05/92	HITACHI et al.	422	180	05/02/90	
	AD	5,177,960	01/12/93	HITACHI et al.	60	299	10/.:8/91	
	AE	5,130,100	07/14/92	Haruo SERIZAWA	422	180	02/26/90	
	AF	5,045,403	09/03/91	MAUS et al.	428	593	07/27/90	
	AG	4,665,051	05/12/87	NONNENMANN	502	439	12/23/85	
	AH	5,328,774	07/12/94	MAUS et al.	428	593	02/05/9	
	AI	5,384,100	01/24/95	FREUND	422	180	09/08/9	
	AJ							
	AK		1					
	<u> </u>		FOREIGN PAT	ENT DOCUMENTS				
		Document Number	Date	Country	Class	Sub- Class	Trans- lation	
	AL	38 44 350 A1	5 July 1990	Germany			No	
	AM	01236948 A	21 Sept. 1989	JP			Yes	
	AN							
	AO					<u> </u>		
		OTHER (Includin	g Author, Titl	le, Date, Pertinent I	Pages, etc	c.)		
	AR							
kaminer				Date Consider		Δ		
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EUROPEAN SEARCH REPORT

Application Number

EP 98 30 4963

	DOCUMENTS CONSI	DERED TO BE RELEVANT		_
Çategory	Citation of document with of relevant pa	indication, where appropriate, ssages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.6)
\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	US 5 323 608 A (HC 28 June 1994 * column 5, line 1 1,4,5 *	NMA HIDEAKI) 1 - line 40; figures	1,2,4 6.7,10,	F01N3/28 B01J35/04
Y	5 May 1992	TACHI YUZO ET AL) 5 - column 7. line 26:	12-16. 21,22 17,20	
	5 July 1990	EDDEUTSCHE KUEHLER BEHR) 3 - column 5, line 35;	6,7,10,	
	US 5 130 100 A (SE 14 July 1992 * column 5, line 5: *	RIZAWA HARUO) 3 - line 65: figures 1,2	17	
	US 5 177 960 A (HI 12 January 1993 * column 3, line 44	 TACHI YUZO ET AL) - line 55: figure 1 *	8	TECHNICAL FIELDS SEARCHED (Int CI.6)
8 2	PATENT ABSTRACTS OF vol. 013, no. 569 (15 December 1989 & JP 01 236948 A (21 September 1989 * abstract *			B01J
2	JS 4 793 136 A (WHI 27 December 1988 -	TTENBERGER WILLIAM A)		TO PECEN
	The present search report has t			
	Place of search HE HAGUE	Date of completion of the search	۔ امر ہی	Examiner M
		30 September 1998	1	ris, M
X : particul Y : particul docume A : technol O : non-wr	EGORY OF CITED DOCUMENTS larly relevant if taken alone larly relevant if combined with anothent of the same category logical background itten disclosure additional document.	T: theory or principle E: earlier patent docu- after the filling date for D: document cited in the document cited for a: member of the sam document	ment, but publish the application other reasons	ned on, or

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 98 30 4963

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on

The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

30-09-1998

Patent document cited in search report			Publication date	Patent family member(s)		Publication date	
US	5323608	А	28-06-1994	DE DE EP	69301107 D 69301107 T 0558064 A	08-02-1996 11-07-1996 01-09-1993	
US	5110561	Α	05-05-1992	DE DE GB KR	4014215 A 9005031 U 2231283 A,B 9406761 Y	15-11-1990 28-03-1991 14-11-1990 28-09-1994	
DE	3844350	Α	05-07-1990	NONE			
US	5130100	Α	14-07-1992	NONE			
US	5177960	А	12-01-1993	JP JP DE DE KR	2160051 A 2745222 B 3940665 A 8914489 U 9405266 B	20-06-1990 28-04-1998 21-06-1990 08-03-1990 15-06-1994	
US	4793136	A	27-12-1988	AU DE EP FI JP	2153288 A 3871286 A 0304776 A 883927 A 1066410 A	02-03-1989 25-06-1992 01-03-1989 27-02-1989 13-03-1989	